

WHAT IS CLAIMED IS:

1. A luminaire housing assembly, comprising:
 - a luminaire housing having an aperture;
 - a connector in said aperture adapted to receive an electrical power conduit;
 - a first fastener hole in said luminaire housing adapted to receive a first fastener to secure said luminaire housing to a support; and
 - a bracket having a first opening aligned with said luminaire housing aperture and a second opening aligned with said first fastener hole.
2. A luminaire housing assembly according to claim 1, wherein said bracket is substantially L-shaped.
3. A luminaire housing assembly according to claim 2, wherein said L-shaped bracket has a first leg and a second leg, said first leg having said first opening and said second leg having said second opening.
4. A luminaire housing assembly according to claim 1, wherein said bracket is made of metal.
5. A luminaire housing assembly according to claim 1, wherein said bracket is made of steel.
6. A luminaire housing assembly according to claim 1, wherein said steel has a modulus of elasticity of approximately 29 million psi.
7. A luminaire housing assembly according to claim 1, wherein said luminaire housing is non-metallic.
8. A luminaire housing assembly according to claim 1, wherein said luminaire housing is made of a fragile material.

9. A luminaire housing assembly according to claim 8, wherein
said fragile material is selected from the group consisting of thin-walled
aluminum, stainless steel, brass and copper.
10. A luminaire housing assembly according to claim 1, wherein
said luminaire housing is made of fiberglass reinforced polyester.
11. A luminaire housing assembly according to claim 1, wherein
a spacer is positioned between said luminaire housing and the support, said
spacer having a second fastener hole aligned with said first fastener
hole in said luminaire housing and said second opening in said bracket
and adapted to receive the first fastener.
12. A luminaire housing assembly according to claim 9, wherein
said spacer is non-metallic.
13. A luminaire housing assembly according to claim 1, wherein
said luminaire housing has a third fastener hole, and said bracket has a
third opening aligned with said third fastener hole in said luminaire
housing, said third opening and said third fastener hole being adapted
to receive a second fastener to secure said bracket to said luminaire
housing.
14. A luminaire housing assembly, comprising:
a luminaire housing having a first end wall and a second end wall, said
first and second end walls being connected by first and second side
walls and a top wall;
a first aperture in said first end wall and a second aperture in said second
end wall of said luminaire housing;

- a first fastener hole in said top wall proximal said first end wall of said luminaire housing adapted to receive a first fastener to secure said luminaire housing to a support;
 - a second fastener hole in said top wall proximal said second end wall of said luminaire housing adapted to receive a second fastener to secure said luminaire housing to a support;
 - a first bracket having a first opening aligned with said first aperture and a second opening aligned with said first fastener hole;
 - a second bracket having a third opening aligned with said second aperture and a fourth opening aligned with said second fastener hole;
 - a first connector received in said first aperture in first end wall and said first opening in said first bracket, said first connector being adapted to receive a first electrical conduit;
 - a second connector received in said second aperture in said second end wall and said third opening in said second bracket, said second connector being adapted to receive a second electrical conduit;
 - a first spacer positioned between said luminaire housing and the support structure proximal said first end wall, said first spacer having a third fastener hole aligned with said first fastener hole and said second opening and adapted to receive the first fastener; and
 - a second spacer positioned between said luminaire housing and the support structure proximal said second end wall, said second spacer having a fourth fastener hole aligned with said second fastener hole and said fourth opening and adapted to receive the second fastener.
15. A luminaire housing assembly according to claim 14, wherein each of said first and second brackets are substantially L-shaped.

16. A luminaire housing assembly according to claim 15, wherein each of said first and second substantially L-shaped brackets has a first leg and a second leg, said first legs having said first and third openings adapted to receive said first and second connectors, and said second legs having said second and fourth openings adapted to receive the first and second fasteners.
17. A luminaire housing assembly according to claim 14, wherein said first and second brackets are made of metal.
18. A luminaire housing assembly according to claim 14, wherein said first and second brackets are made of steel.
19. A luminaire housing assembly according to claim 18, wherein said steel has a modulus of elasticity of approximately 29 million psi.
20. A luminaire housing assembly according to claim 14, wherein said first and second spacers are non-metallic.
21. A luminaire housing assembly according to claim 14, wherein a fifth opening in said first bracket is aligned with a fifth fastener hole in said luminaire housing to receive a third fastener to secure said first bracket to said luminaire housing; and a sixth opening in said second bracket is aligned with a sixth fastener hole in said luminaire housing to receive a fourth fastener to secure said second bracket to said luminaire housing.
22. A luminaire housing assembly according to claim 14, wherein said luminaire housing is non-metallic.

23. A luminaire housing assembly according to claim 22, wherein said non-metallic luminaire housing is made of fiberglass reinforced polyester.
24. A luminaire housing assembly according to claim 14, wherein said luminaire housing is made of a fragile material.
25. A luminaire housing assembly according to claim 24, wherein said fragile material is selected from the group consisting of thin-walled aluminum, stainless steel, brass and copper.
26. A method of transferring mechanical loads and stresses in a luminaire housing assembly, comprising the steps of
securing a bracket to the luminaire housing;
securing the luminaire housing to a rigid structural support with a fastener extending through the bracket and housing and into the support; and
connecting a rigid electrical conduit to a connector secured to the bracket, wherein the bracket transfers mechanical loads and stresses imparted by the conduit through the bracket and into the support to prevent damaging the luminaire housing.
27. A method of transferring mechanical loads and stresses in a non-metallic luminaire according to claim 26, further comprising the steps of
spacing the luminaire housing from the structural support with a spacer block.

Abstract of the Disclosure

[0038] A luminaire housing transfers mechanical loads and stresses imparted by an electrical power supply through a bracket to a support, thereby preventing damage to the luminaire housing. The luminaire housing has an aperture that is adapted to receive the electrical power supply. A first fastener hole in the luminaire housing is adapted to receive a first fastener to secure the luminaire housing to the support. A bracket has a first opening aligned with the luminaire housing aperture and a second opening aligned with the first fastener hole.